VOLUME 43

LIST OF CONTENTS

Number 1

Original Articles

Alan R. Dyer, Gary R. Cutter, Kiang Liu, Mary Anne Armstrong, Gary D. Friedman, Glenn H. Hughes, Jeffrey J. Dolce, James Raczynski, Greg Burke and **Teri Manolio** — 1 Alcohol intake and blood pressure in young adults: the CARDIA Study

Gary E. Rosenthal and **C. Seth Landefeld** — 15 The relation of chlamydial infection of the cervix to time elapsed from the onset of menses

Jacob C. Seidell, Massimo Cigolini, Jadviga Charzewska, Britt-Marie Ellsinger, Giuseppe Di Biase, Per Björntorp, Joseph G. A. J. Hautvast, Franco Contaldo, Viktor Szostak and **Ludovico A. Scuro** — 21 Androgenicity in relation to body fat distribution and metabolism in 38-year-old women—the European Fat Distribution Study

Amy Borenstein Graves, Emily White, Thomas D. Koepsell, Burton V. Reifler, Gerald van Belle and **Eric B. Larson** — 35 The association between aluminum-containing products and Alzheimer's disease

Robert S. Sandler and **Kathy L. Holland** — 45 Fate of incorrectly addressed mailed questionnaires

George Howard, Gregory W. Evans, James F. Toole, Grethe Tell, Lynn A. Rose, Mark Espeland and **B. Lionel Truscott** — 49 Characteristics of stroke victims associated with early cardiovascular mortality in their children

Glen A. Satten and **Lawrence L. Kupper** — 55 Sample size determination for pair-matched case-control studies where the goal is interval estimation of the odds ratio

Mary Ann Lansang, Roxanne Lucas-Aquino, Thelma E. Tupasi, Vida S. Mina, Lourdes S. Salazar, Noel Juban, Teresa T. Limjoco, Lennore E. Nisperos and **Calvin M. Kunin** — 61 Purchase of antibiotics without prescription in Manila, The Philippines. Inappropriate choices and doses

L. Ronald French, Ian T. Jackson and **L. Joseph Melton III** — 69 A population-based study of craniosynostosis

Patricia A. Ganz, C. Anne Coscarelli Schag and **Huei-Ling Cheng** — 75 Assessing the quality of life—a study in newly-diagnosed breast cancer patients

Steven S. Coughlin — 87 Recall bias in epidemiologic studies

Stanley A. Edlavitch, Richard Crow, Gregory L. Burke, James Huber, Ronald Prineas and **Henry Blackburn** — 93 The effect of the number of electrocardiograms analyzed on cardiovascular disease surveillance: the Minnesota Heart Survey (MHS)

Second Thoughts

Frank A. Lederle — 101 Screening for snipers: the burden of proof

Special Communication

David Arenberg — 105 Misclassification of "probable Senile Dementia—Alzheimer's Type" in the Baltimore Longitudinal Study of Aging

Editorial Rumination

Alvan R. Feinstein — 109 The inadequacy of binary models for the clinical reality of three-zone diagnostic decisions

Letter to the Editors

William Morton — 115 Temporal characterization of cancer occurrence

Roger Day, James Ware, Daniel Wartenberg and Marvin Zelen — 116 Response

Number 2

Original Articles

Kathy L. Ales, Margaret E. Norton and Maurice L. Druzin — 117 The clinical significance of predictions based on screening second trimester mean arterial pressure: adverse material and infant outcomes

Linda Orkin Lewin, Pamela J. Byard and Pamela B. Davis — 125 Effect of *Pseudomonas cepacia* colonization on survival and pulmonary function of cystic fibrosis patients

J. J. Weinkam and T. D. Sterling — 133 Age related changes in age of starting to smoke

T. D. Sterling, J. J. Weinkam and J. L. Weinkam — 141 The Sick Person Effect

Lorraine O. de Labry, Edward W. Campion, Robert J. Glynn and Pantel S. Vokonas — 153 White blood cell count as a predictor of mortality: results over 18 years from the Normative Aging Study

Earl S. Ford, Yossi Harel, Gregory Heath, Richard S. Cooper and Carl J. Caspersen — 159 Test characteristics of self-reported hypertension among the Hispanic population: findings from the Hispanic Health and Nutrition Examination Survey

Robert W. Peters, Robert P. Byington, Allan Barker and Salim Yusuf for the BHAT Study Group — 167 Prognostic value of prolonged ventricular repolarization following myocardial infarction: the BHAT experience

Jill M. Fujisaki, Gerald van Belle and Paul D. Sampson — 173 "Size" and "shape" variables in the presence of covariates: an application to the Sudden Infant Death Syndrome

Kathleen L. Irwin, Phyllis A. Wingo and Nancy C. Lee — 181 Agreement of self-reported ovarian number following gynecologic surgery with medical record reports

Second Thoughts

Ralph Crawshaw — 189 A medical homily: old dogs do teach new tricks

W. F. Forbes and M. E. Thompson — 191 Age-related diseases and normal aging: the nature of the relationship

Special Communication

Michael H. Alderman and Bernard Lamport — 195 Labelling of hypertensives: a review of the data

Editorial Rumination

Alvan R. Feinstein — 201 The unit fragility index: an additional appraisal of "statistical significance" for a contrast of two proportions

Number 3

Editorial

Edmond A. Murphy — 211 Precision and insight

Variance and Dissent

Johannes G. Schmidt — 215 The epidemiology of mass breast cancer screening—a plea for a valid measure of benefit

Sam Shapiro — 227 A dissent from Dr Schmidt's appraisal of evidence on breast cancer screening

Johannes G. Schmidt — 235 Response to Dr Shapiro's dissent

Original Articles

Benjamin F. Crabtree, Subhash C. Ray, Priscilla M. Schmidt, Patrick J. O'Connor and David D. Schmidt — 241 The individual over time: time series applications in health care research

James F. Jekel — 261 "Rainbow Reviews" IV: recent publications of the National Center for Health Statistics

Christine Bouchardy, Monique G. Lê and Catherine Hill — 267 Risk factors for breast cancer according to age at diagnosis in a French case–control study

James G. Dolan — 277 Can decision analysis adequately represent clinical problems?

Piet A. van den Brandt, R. Alexandra Goldbohm, Pieter van 't Veer, Alexander Volovics, Rudolph J. J. Hermus and Ferd Sturmans — 285 A large-scale prospective cohort study on diet and cancer in The Netherlands

Gerald M. Devins, Yitzchak M. Binik, Henry Mandin, P. K. Letourneau, David J. Hollomby, Paul E. Barre and Sara Prichard — 297 The Kidney Disease Questionnaire: a test for measuring patient knowledge about end-stage renal disease

Second Thoughts

Derek Yach — 309 Biological markers: broadening or narrowing the scope of epidemiology

Richard V. Lee — 311 Cruel cacophony, boisterous beeper

Number 4

Commentary

Jeffrey R. Idle — 313 Titrating exposure to tobacco smoke using cotinine—a minefield of misunderstandings

Original Articles

Braxton D. Mitchell, Michael P. Stern, Steven M. Haffner, Helen P. Hazuda and Judith K. Patterson — 319 Functional impairment in Mexican Americans and non-Hispanic whites with diabetes

Betsy Foxman and Jen-Wei Chi — 329 Health behavior and urinary tract infection in college-aged women

Alvan R. Feinstein, Carolyn K. Wells and Stephen D. Walter — 339 A comparison of multivariable mathematical methods for predicting survival—I. Introduction, rationale, and general strategy

Stephen D. Walter, Alvan R. Feinstein and Carolyn K. Wells — 349 A comparison of multivariable mathematical methods for predicting survival—II. Statistical selection of prognostic variables

Carolyn K. Wells, Alvan R. Feinstein and Stephen D. Walter — 361 A comparison of multivariable mathematical methods for predicting survival—III. Accuracy of predictions in generating and challenge sets

Kathleen Arpin, Margaret Fitch, Gina Bohn Browne and Paul Corey — 373 Prevalence and correlates of family dysfunction and poor adjustment to chronic illness in specialty clinics

N. G. Bruce, D. G. Cook, A. G. Shaper and A. G. Thomson — 385 Geographical variations in blood pressure in British men and women

L. Rachid Salmi, J. Ivan Williams and Richard J. Waxweiler — 399 Measuring the impact of trauma care on survival: rates of preventable death, effectiveness, and efficacy

Second Thoughts

Richard V. Lee — 405 Tails, tetanus and Turner

Adrian Ostfeld — 412 Bypass coronary surgery

Number 5

Original Articles

Eva Negri, Adriano Decarli, Carlo La Vecchia and Ettore Marubini — 413 Identification of high risk groups for breast cancer by means of logistic models

Stefano Ciatto, Silvia Cecchini, Marco Rosselli Del Turco, Grazia Grazzini, Anna Iossa and Dusca Bartoli — 419 Referral policy and positive predictive value of call for surgical biopsy in the Florence breast cancer screening program

Earl S. Ford, Richard S. Cooper, Brian Simmons and Angel Castaner — 425 Serum lipids, lipoproteins and apolipoproteins in black patients with angiographically defined coronary artery disease

Hans Petri, Hubert Leufkens, Jack Naus, Reinhilde Silkens, Paulien van Hessen and John Urquhart — 433 Rapid method for estimating the risk of acutely controversial side effects of prescription drugs

Marie C. McCormick, J. Brooks-Gunn, Thomasine Shorter, John H. Holmes, Claudina Y. Wallace and Margaret C. Heagarty — 441 Factors associated with smoking in low-income pregnant women: relationship to birth weight, stressful life events, social support, health behaviors and mental distress

Linda M. Pottern, Michael M. Kaplan, P. Reed Larsen, J. Enrique Silva, Ronald J. Koenig, Jay H. Lubin, Marilyn Stovall and John D. Boice Jr — 449 Thyroid nodularity after childhood irradiation for lymphoid hyperplasia: a comparison of questionnaire and clinical findings

J. A. Knottnerus, L. R. Delgado, P. G. Knipschild, G. G. M. Essed and F. Smits — 461 Haematologic parameters and pregnancy outcome. A prospective cohort study in the third trimester

B. I. B. Lindahl, E. Glattre, R. Lahti, G. Magnusson and J. Mosbech — 467 The WHO principles for registering causes of death: suggestions for improvement

Mary E. Farmer, Steven J. Kittner, Robert D. Abbott, Michael M. Wolz, Philip A. Wolf and Lon R. White — 475 Longitudinally measured blood pressure, antihypertensive medication use, and cognitive performance: the Framingham Study

Lori S. Ebbesen, Gordon H. Guyatt, Neil McCartney and Neil B. Oldridge — 481 Measuring quality of life in cardiac spouses

Gail E. McKeown-Eyssen, John Ruedy, Sheilah Hogg, Judy Read Guernsey and Ivan Woods — 489 Validity and reproducibility of a screening examination for neurological abnormality in persons exposed to methylmercury

James Rochon — 499 A statistical model for the "*N*-of-1" study

Nigel S. B. Rawson, Gillian L. Pearce and William H. W. Inman — 509 Prescription–event monitoring: methodology and recent progress

Second Thoughts

Ralph Crawshaw — 523 The media and the AIDS crisis: a conference of Oregon journalists

Richard V. Lee — 527 The clinical picture

Special Communication

Albert D. Anderson — 533 A second collection of poetry from a physician with neurological disorder

Corrigenda — 537

Number 6

Commentary

Hal Morgenstern and Sander Greenland — 539 Graphing ratio measures of effect

Original Articles

Alvan R. Feinstein and Domenic V. Cicchetti — 543 High agreement but low kappa: I. The problems of two paradoxes

Domenic V. Cicchetti and Alvan R. Feinstein — 551 High agreement but low kappa: II. Resolving the paradoxes

Marta L. Gwinn, Nancy C. Lee, Philip H. Rhodes, Peter M. Layde and George L. Rubin — 559 Pregnancy, breast feeding, and oral contraceptives and the risk of epithelial ovarian cancer

P. Boffetta, J. Barone and E. L. Wynder — 569 Leisure time physical activity in a hospital-based population

Albert M. van Hemert, Jan P. Vandenbroucke, Albert Hofman and Hans A. Valkenburg — 579 Metacarpal bone loss in middle-aged women: "horse racing" in a 9-year population based follow-up study

Gerald van Belle, Richard F. Uhlmann, James P. Hughes and Eric B. Larson — 589 Reliability of estimates of changes in mental status test performance in senile dementia of the Alzheimer type

William R. Hiatt, Julie A. Marshall, Judith Baxter, Rodney Sandoval, William Hildebrandt, Louise R. Kahn and Richard F. Hamman — 597 Diagnostic methods for peripheral arterial disease in the San Luis Valley Diabetes Study

Second Thoughts

C. David Naylor, Antoni Basinski, Howard B. Abrams and Allan S. Detsky — 607 Clinical and population epidemiology: beyond sibling rivalry?

S. D. Walter, J. E. Hurley, R. J. Labelle and D. L. Sackett — 613 Clinical rounds for non-clinicians: some impressions

Special Communication

E. L. Wynder, I. T. Higgins and R. E. Harris — 619 The wish bias

Letter to the Editors

Mikel Aickin — 623 Measurement of survival

Dorly J. H. Deeg, Gerrit J. van Oortmarssen and J. Dik F. Habbema — 625 Response

Comment to the Editors on the Miettinen–Feinstein "Debate"

Jan P. Vandenbroucke — 627 Hierarchy of methods

Alvan R. Feinstein — 627 Response

S. J. Senn — 628 Clinical trials and epidemiology

Alvan R. Feinstein — 631 Response

Number 7

Commentary

Joanne K. Tobacman and Richard P. Wenzel — 633 Clinical epidemiology: further consideration

Original Articles

W. C. S. Smith, M. C. Shewry, Hugh Tunstall-Pedoe, I. K. Crombie and R. Tavendale — 637 Cardiovascular disease in Edinburgh and North Glasgow—a tale of two cities

U.-B. Ericsson and F. Lindgärde — 645 The epidemiology of thyroid disorders in a seaport community in southern Sweden

G. Fillenbaum, A. Heyman, K. Williams, B. Prosnitz and B. Burchett — 651 Sensitivity and specificity of standardized screens of cognitive impairment and dementia among elderly black and white community residents

H. J. Sutherland, G. A. Lockwood and N. F. Boyd — 661 Ratings of the importance of quality of life variables: therapeutic implications for patients with metastatic breast cancer

Benjamin A. Rybicki, Terri H. Beaty and Bernice H. Cohen — 667 Major genetic mechanisms in pulmonary function

Persson Ingemar, Adami Hans-Olov, Bergström Reinhold, Krusemo Ulla Brith and Hoover Robert — 677 Survival in women receiving hormone replacement therapy. A record-linkage study of a large population-based cohort

Donna Kritz-Silverstein, Elizabeth Barrett-Connor and Deborah L. Wingard — 687 The relationship between reproductive history and cholecystectomy in older women

MaryFran R. Sowers and Robert B. Wallace — 693 Retinol, supplemental vitamin A and bone status

Antonio Ciampi, Alicia Schiffrin, Johanne Thiffault, Hélène Quintal, Gabriel Weitzner, Philippe Poussier and Daniel Lalla — 701 Cluster analysis of an insulin-dependent diabetic cohort towards the definition of clinical subtypes

Second Thoughts

Richard V. Lee — 717 Eros and Asklepios: thoughts provoked by an Indian sculpture

Ralph Crawshaw — 723 Thoughts about diagnosis

Letters to the Editors

F. Javier Nieto-García and Lori A. Edwards — 727 On the spurious correlation between changes in blood pressure and initial values

J. Morley Kotchen, Paul B. Hshieh, Theodore A. Kotchen and Harlley E. McKean — 728 Response

William DeWys — 729 Sex ratio of laryngeal cancer by anatomical site

F. Levi and C. La Vecchia — 729 Sex ratio of laryngeal cancer by anatomical site

C. Paul Yang — 730 Response

Number 8

Commentary

William E. Stehbens — 733 The epidemiological relationship of hypercholesterolemia, hypertension, diabetes mellitus and obesity to coronary heart disease and atherogenesis

Variance and Dissent: Presentation

T. Wilcosky, J. Hyde, J. J. B. Anderson, S. Bangdiwala and B. Duncan — 743 Obesity and mortality in the Lipid Research Clinics Program Follow-up Study

Variance and Dissent: Dissent

Alfred A. Rimm — 753 A reveal–conceal test for manuscript review: its application in the obesity and mortality study

Variance and Dissent: Response

T. Wilcosky — 755 Analysis of sparse data

Original Articles

Bernie J. O'Brien, Martin J. Buxton and Hamid T. Khawaja — 757 An economic evaluation of transdermal glyceryl trinitrate in the prevention of intravenous infusion failure

Bram Kirshner, Milton Gold and Barry Zimmerman — 765 Comparison between the prevalence and treatment of wheezing and coughing in Brampton and Mississauga children

A. Grand, P. Grosclaude, H. Bocquet, J. Pous and J. L. Albarede — 773 Disability, psychosocial factors and mortality among the elderly in a rural French population

S. G. Thompson and S. J. Pocock — 783 The variability of serum cholesterol measurements: implications for screening and monitoring

Jack P. Whisnant, L. Joseph Melton III, Patricia H. Davis, W. Michael O'Fallon, Katsuya Nishimaru and Bruce S. Schoenberg† — 791 Comparison of case ascertainment by medical record linkage and cohort follow-up to determine incidence rates for transient ischemic attacks and stroke

Carol Ballew, Kiang Liu, Peter Savage, Albert Oberman, Carey Smoak and the CARDIA Study Group — 799 The utility of indirect measures of obesity in racial comparisons of blood pressure

Thomas V. Jones, Martha S. Gerrity and JoAnne Earp — 805 Written case simulations: do they predict physicians' behavior?

Maria Bremer Schulte, Arnold Kester, Ben Pluym and Camille Sutherland — 817 Health promotion and self-care in the case of cardiovascular disease

Allan Donner and K. Y. Robert Li — 827 The relationship between chi-square statistics from matched and unmatched analyses

G. P. Browman, S. Markman, G. Thompson, T. Minuk, A. Chirawatkul and R. S. Roberts — 833 Assessment of observer variation in measuring the Radiographic Vertebral Index in patients with multiple myeloma

Second Thoughts

Richard V. Lee 841 Computer on the mountain: technology in remote areas of the developing world

Joseph Herman 845 The tragedy of Mrs T.

Number 9

Editorial

Louis Lasagna 849 Are drug benefits also part of pharmacoepidemiology?

Original Articles

Edward J. Boyko and **Beth W. Alderman** 851 The use of risk factors in medical diagnosis: opportunities and cautions

Michael H. Alderman, Wee Lock Ooi, Shantha Madhavan and **Hillel Cohen** 859 Blood pressure reactivity predicts myocardial infarction among treated hypertensive patients

Peter Lange, Jørgen Nyboe, Merete Appleyard, Gorm Jensen and **Peter Schnohr** 867 Spirometric findings and mortality in never-smokers

Jonathan S. Silberberg 875 Estimating the benefits of cholesterol lowering: are risk factors for coronary heart disease multiplicative?

Patrick J. O'Connor, Benjamin F. Crabtree, Roy M. Nakamura and **David Kelley** 881 Hospitalization experience of Navajo subjects with type II diabetes and matched controls: an historical cohort study

Steven H. Woolf, Renaldo N. Battista, Geoffrey M. Anderson, Alexander G. Logan, Elaine Wang and **the Canadian Task Force on the Periodic Health Examination** 891 Assessing the clinical effectiveness of preventive maneuvers: analytic principles and systematic methods in reviewing evidence and developing clinical practice recommendations. A report by the Canadian Task Force on the Periodic Health Examination

Gary D. Friedman, Joseph V. Selby and **Charles P. Quesenberry Jr** 907 The leukocyte count: a predictor of hypertension

A. J. Lee, W. C. S. Smith, G. D. O. Lowe and **H. Tunstall-Pedoe** 913 Plasma fibrinogen and coronary risk factors: the Scottish Heart Health Study

Sharon L. Reilly, Bruce A. Kottke and **Charles F. Sing** 921 The effects of generation and gender on the joint distributions of lipid and apolipoprotein phenotypes in the population at large

Roger J. Marshall 941 Validation study methods for estimating exposure proportions and odds ratios with misclassified data

Jan Wienpahl, David R. Ragland and **Stephen Sidney** 949 Body mass index and 15-year mortality in a cohort of black men and women

Bruce M. Psaty, Thomas D. Koepsell, Teri A. Manolio, W. T. Longstreth Jr, Edward H. Wagner, Patricia W. Wahl and **Richard A. Kronmal** 961 Risk ratios and risk differences in estimating the effect of risk factors for cardiovascular disease in the elderly

Kenneth Rockwood 971 Delays in the discharge of elderly patients

James S. Goodwin, William C. Hunt, Charles R. Key and **Jonathan M. Samet** 977 Changes in surgical treatments: the example of hysterectomy versus conization for cervical carcinoma *in situ*

David D. Celentano, Walter F. Stewart and **Martha S. Linet** 983 The relationship of headache symptoms with severity and duration of attacks

F. C. E. van Knippenberg, H. J. Duivenvoorden, B. Bonke and **J. Passchier** 995 Shortening the State–Trait Anxiety Inventory

Second Thoughts

Joseph Herman 1001 Intimations of uncertainty in the practice of medicine

Letters to the Editors

Claude Bouchard, Arthur S. Leon, D. C. Rao, James S. Skinner and **Jack H. Wilmore** 1005 Fitness and risk factors for coronary disease

A. W. Sedgwick and **D. W. Thomas**	1007	Response
Marcello Pagano and **Alan Leviton**	1012	File drawers, *p* values and efficacy of drugs
Karl E. Peace	1013	Response
Gerald A. Faich	1014	Drug banning and the regulatory process
Kenneth L. Melmon	1015	Response
Charles Poole	1016	"Would" vs "should" in the definition of secondary study base
Olli S. Miettinen	1017	Response: the concept of secondary base

Number 10

ASYMPTOMATIC HYPERCHOLESTEROLEMIA: A CLINICAL POLICY REVIEW

Preface v

Editorials

Cholesterol: Consensus and Controversy (by ADAM L. LINTON) 1021

Cholesterol Policy: What Should We Do? How Should We Decide? (by THOMAS E. KOTTKE and MILO L. BREKKE) 1023

Chapter 1. Introduction 1029
1. The burden of coronary heart disease 1029
2. Differences in disease burden by age and sex 1029
3. The change in CHD mortality rates 1031
4. Primary and secondary prevention 1031
5. Case-finding versus screening 1031
6. Population strategies and the medical model 1032
7. Structure of the report 1032

Chapter 2. Serum Cholesterol and Other Risk Factors for Coronary Heart Disease 1035
1. Population studies 1036
2. The nature of the relationship between serum cholesterol and CHD 1037
3. Serum cholesterol and other risk factors for CHD 1038
4. Cholesterol, gender, and age 1043
5. Serum cholesterol and the prediction of CHD events 1045
6. Implications: the prevention paradox 1049

Chapter 3. Cholesterol Lowering and Clinical Outcomes: The Results of Clinical Trials 1053
1. The structure of risk-lowering clinical trials 1053
2. Summary of the clinical trials to lower serum cholesterol 1053
3. Summary and interpretation of the evidence from clinical trials 1060

Chapter 4. Lowering Serum Cholesterol: Diet and Drugs 1067
1. Diet 1067
2. Pharmacologic therapy for hypercholesterolemia 1073

Chapter 5. Cholesterol-lowering Programs: Prospects and Practical Problems 1077
1. The quality of the detection method 1077
2. Infrastructure and manpower constraints 1082
3. The general risks of screening and case-finding 1082
4. Non-compliance and non-participation 1085
5. The medical strategy versus a population-based approach: potential impact on CHD 1087

Chapter 6. Efficiency Considerations: The Cost-effectiveness of Treating Asymptomatic Hypercholesterolemia 1093
1. Review of the cost-effectiveness of treating hypercholesterolemia 1094
2. Comparison with other interventions to reduce CHD 1098
3. Conclusions about the cost-effectiveness of programs to treat asymptomatic hypercholesterolemia 1099
4. Some implications for policy formulation 1099

Chapter 7. Cholesterol-lowering Programs: Recent Policy Statements 1103
1. Origins and content of recommendations to date 1103
2. Points of agreement among the policies 1108
3. Points of disagreement among the policies 1108
4. Comment on the proposed policies and programs 1109

Chapter 8. Conclusions and Recommendations 1113
1. Conclusions 1113
2. Recommendations 1117

Acknowledgements I

Number 11

Original Articles

Thomas W. Weiss, Carl H. Slater, Lawrence W. Green, Virginia C. Kennedy, Donna L. Albright and **Chuan-Chuan Wun** 1123 The validity of single-item, self-assessment questions as measures of adult physical activity

Lawrence A. Palinkas, Deborah L. Wingard and **Elizabeth Barrett-Connor** 1131 Chronic illness and depressive symptoms in the elderly: a population-based study

Theodore G. Ganiats, Charles C. Berry and **Judith T. Fullerton** 1143 Effect of normal MSAFP screening on maternal age for genetic amniocentesis

Jay M. Sosenko, Martha Kato, Ramon Soto and **Ronald B. Goldberg** 1149 The relation between the plasma lipoprotein pattern and the waist/hip ratio in non-diabetic individuals

Helena C. Kraemer and **Kaye H. Fendt** 1157 Random assignment in clinical trials: issues in planning (Infant Health and Development Program)

Frances E. Thompson, Helen L. Metzner, Donald E. Lamphiear and **Victor M. Hawthorne** 1169 Characteristics of individuals and long term reproducibility of dietary reports: the Tecumseh Diet Methodology Study

Allen A. Herman and **Trevor J. Hastie** 1179 An analysis of gestational age, neonatal size and neonatal death using nonparametric logistic regression

G. ter Riet, J. Kleijnen and **P. Knipschild** 1191 Acupuncture and chronic pain: a criteria-based meta-analysis

Susan Galloway Hilsenbeck 1201 Quality control practices in centralized tumor registries in North America

Tim Carey, Kathi Weis and **Charles Homer** 1213 Prepaid versus traditional Medicaid plans: effects on preventive health care

Tim D. Spector and **Marc C. Hochberg** 1221 The protective effect of the oral contraceptive pill on rheumatoid arthritis: an overview of the analytic epidemiological studies using meta-analysis

Maurice L. Sievers, Robert G. Nelson and **Peter H. Bennett** 1231 Adverse mortality experience of a southwestern American Indian community: overall death rates and underlying causes of death in Pima Indians

Lewis E. Kazis, Leigh F. Callahan, Robert F. Meenan and **Theodore Pincus** 1243 Health status reports in the care of patients with rheumatoid arthritis

Carlos R. Herrera and **Cornelius Lynch** 1255 Is baldness a risk factor for coronary artery disease? A review of the literature

Huub Straatman and **André L. M. Verbeek** 1261 Shortcut method to calculate the sample size in trials of screening for chronic disease

Letters to the Editors

S. L. Rifat 1267 Graphic representations of effect estimates: an example from a meta-analytic review

Charles Poole and **Kenneth J. Rothman** 1270 Epidemiologic science and public health policy

Betsy Foxman 1270 Response

Original Articles

Bernard Burnand, Walter N. Kernan and **Alvan R. Feinstein**	1273	Indexes and boundaries for "quantitative significance" in statistical decisions
Mohamed A. A. Moussa, Mohamed Z. Shafie, Mustafa M. Khogali, Ali M. El-Sayed, T. N. Sugathan, George Cherian, Al-Zook H. Abdel-Khalik, Mohamed T. Garada and **D. Verma**	1285	Reliability of death certificate diagnoses
Henriëtte M. J. A. Loenen, Harriët Eshuis, Michiel R. H. Löwik, Evert G. Schouten, Karin F. A. M. Hulshof, Jacobus Odink and **Frans J. Kok**	1297	Serum uric acid correlates in elderly men and women with special reference to body composition and dietary intake (Dutch Nutrition Surveillance System)
Birgitte Weile, David H. Rubin, P. A. Krasilnikoff, H. S. Kuo and **J. F. Jekel**	1305	Infant feeding patterns during the first year of life in Denmark: factors associated with the discontinuation of breast-feeding
Peter C. Gøtzsche	1313	Sensitivity of effect variables in rheumatoid arthritis: a meta-analysis of 130 placebo controlled NSAID trials
Michael S. Kramer, Anne-Marie MacLellan, Antonio Ciampi, Jamshid Etezadi-Amoli and **Denis G. Leduc**	1319	Parents' vs physicians' utilities (values) for clinical outcomes in potentially bacteremic children
Gladys Block, Margo Woods, Arnold Potosky and **Carolyn Clifford**	1327	Validation of a self-administered diet history questionnaire using multiple diet records
Richard Neugebauer and **Stephen Ng**	1337	Differential recall as a source of bias in epidemiologic research
Martin C. Weinrich, Hildegard R. Maricq, Julian E. Keil, Andrew R. McGregor and **Francoise Diat**	1343	Prevalence of Raynaud phenomenon in the adult population of South Carolina
Michael H. Dong, Satya D. Dubey, Robert T. O'Neill and **Yi Tsong**	1351	Competing risk analysis of life table data: application to lifetime risk computation
F. P. L. Van Loon, J. D. Clemens, M. Shahrier, D. A. Sack, C. B. Stephensen, M. R. Khan, G. H. Rabbani, M. R. Rao and **A. K. Banik**	1361	Low gastric acid as a risk factor for cholera transmission: application of a new non-invasive gastric acid field test
Veronica R. Collins, Gary K. Dowse, Caroline F. Finch and **Paul Z. Zimmet**	1369	An inconsistent relationship between insulin and blood pressure in three Pacific island populations
Stephan F. Lanes and **Kenneth J. Rothman**	1379	Tampon absorbency, composition and oxygen content and risk of toxic shock syndrome
B. Burt Gerstman, Frank E. Lundin, Bruce V. Stadel and **Gerald A. Faich**	1387	A method of pharmacoepidemiologic analysis that uses computerized Medicaid data
Henrica C. W. de Vet, Paul G. Knipschild, Hubert J. A. Schouten, Johan Koudstaal, Wie-sien Kwee, Dirk Willebrand, Ferd Sturmans and **Jan Willem Arends**	1395	Interobserver variation in histopathological grading of cervical dysplasia
William P. McWhorter, Gayle M. Boyd and **Margaret E. Mattson**	1399	Predictors of quitting smoking; the NHANES I followup experience
Michael J. Klag, Richard D. Moore, Paul K. Whelton, Yoshimichi Sakai and **George W. Comstock**	1407	Alcohol consumption and blood pressure: a comparison of native Japanese to American men
A. John Campbell, George F. Spears and **Michael J. Borrie**	1415	Examination by logistic regression modelling of the variables which increase the relative risk of elderly women falling compared to elderly men
J. Cuzick, A. Babiker, B. L. De Stavola, D. McCance, R. Cartwright and **R. W. Glashan**	1421	Palmar keratoses in family members of individuals with bladder cancer

Caroline A. Macera, Kirby L. Jackson, Dorothy R. Davis, Jennie J. Kronenfeld and Steven N. Blair	1427	Patterns of non-response to a mail survey

Letters to the Editors

S. D. Walter	1431	Recall bias in epidemiologic studies
Steven S. Coughlin	1431	Response
Gary G. Schwartz	1433	Can vasectomy reduce the sexual transmission of HIV?

Supplement

SUPPORT: STUDY TO UNDERSTAND PROGNOSES AND PREFERENCES FOR OUTCOMES AND RISKS OF TREATMENTS

STUDY DESIGN

Donald J. Murphy and **Leighton F. Cluff**	V	Introduction: The SUPPORT Study
Joanne Lynn and **William A. Knaus**	1S	*Chapter 1*: Background for SUPPORT
Barbara Kreling, Detra K. Robinson and **Marilyn Bergner**	5S	*Chapter 2*: Data collection strategies in SUPPORT
Donald J. Murphy, William A. Knaus and **Joanne Lynn**	11S	*Chapter 3*: Study population in SUPPORT: patients (as defined by disease categories and mortality projections), surrogates, and physicians
Russell S. Phillips and **William A. Knaus**	29S	*Chapter 4*: Patient characteristics in SUPPORT: sociodemographics, admission diagnosis, co-morbidities and acute physiology score
Russell S. Phillips, Lee Goldman and **Marilyn Bergner**	33S	*Chapter 5*: Patient characteristics in SUPPORT: activity status and cognitive function
C. Seth Landefeld, Russell S. Phillips and **Marilyn Bergner**	37S	*Chapter 6*: Patient characteristics in SUPPORT: functional status
Russell S. Phillips, Donald J. Murphy, Lee Goldman and **William A. Knaus**	41S	*Chapter 7*: Patient characteristics in SUPPORT: disease specific clinical data
Alfred F. Connors, Jr, Neal V. Dawson and **Joanne Lynn**	47S	*Chapter 8*: Decision making in SUPPORT: introduction
Claudia J. Coulton	51S	*Chapter 9*: Decision making in SUPPORT: patient perceptions and preferences
Russell S. Phillips, Veronica F. Rempusheski, Ann Louise Puopolo, Mary Naccarato and **Lee Mallatratt**	55S	*Chapter 10*: Decision making in SUPPORT: the role of the nurse
Alfred F. Connors, Jr, Neal V. Dawson, Hal R. Arkes and **Mary Joan Roach**	59S	*Chapter 11*: Decision making in SUPPORT: physician perceptions and preferences
Neal V. Dawson and **Alfred F. Connors, Jr**	63S	*Chapter 12*: Decision making in SUPPORT: physician characteristics
Stuart J. Youngner, Donald J. Murphy and **Joanne Lynn**	67S	*Chapter 13*: Decision making in SUPPORT: sentinel decisions
Joel Tsevat, Neal V. Dawson and **David B. Matchar**	73S	*Chapter 14*: Assessing quality of life and preferences in the seriously ill using utility theory
Norman A. Desbiens, Steven K. Broste and **Peter M. Layde**	79S	Chapter 15: Collaborating hospital characteristics and their healthcare and legal environments in SUPPORT
Robert K. Oye, C. Seth Landefeld and **Robert L. Jayes**	83S	*Chapter 16*: Outcomes in SUPPORT

Frank E. Harrell, Jr, Stephen E. Marcus, Peter M. Layde, Steven K. Broste, E. Francis Cook, Douglas P. Wagner, Lawrence H. Muhlbaier and **Steve L. Peck** — 89S *Chapter 17*: Statistical methods in SUPPORT

Norman A. Desbiens, Steven K. Broste, Marilyn A. Follen and **Peter M. Layde** — 99S Chapter *18*: A population-based study of the prevalence and outcome of serious illness in adults

Neal V. Dawson, Stuart J. Younger and **Alfred F. Connors** — 103S *Chapter 19*: Influencing decision making in SUPPORT

109S Appendices